



Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CATALYTIC GENERATION OF HYDROGEN

the specification of which is attached hereto unless the following box is checked:

was filed on April 11, 2001 as

United States Application Number or PCT International Application Number 09/832,378

and was amended on April 11, 2001 (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Not Claimed

9806199.7

Great Britain

24 March 1998

(Number)

(Country)

(Day/Month/Year Filed)



—

—

—



I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

RECEIVED

—

—

JUL 2 3 2001

(Application Number)

(Filing Date)

OFFICE OF PETITIONS

—

—

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**Supplement to
Declaration and Power of Attorney For Patent Application
English Language Declaration**

**For Signature By 37 CFR 1.47(b) Applicant on Behalf of Nonsigning
Inventors Who Refuse to Sign**

I, Ian Carmichael Wishart hereby declare that I am a citizen of United Kingdom residing at :

Bagpuize House, Baker Street, Aston Tirrold, Oxfordshire, OX11 9DD, United Kingdom

I am authorized by the following company with sufficient proprietary interest:

Johnson Matthey Public Limited Company
2-4 Cockspur Street
Trafalgar Square
London, SW1Y 5BQ
United Kingdom

Title: Patents and Licensing Controller

By virtue of this proprietary interest, I sign this declaration under 37 CFR 1.47(b) on behalf of, and as agent for the nonsigning joint inventors, particulars of whom are:

Ian William CARPENTER

Residence Gloucestershire, United Kingdom

Citizenship British

Post Office Address Iwydene, Latchen, Longhope
Gloucestershire, GR17 0QB, United Kingdom

who refuses to sign, and

J. hn William HAYES

Residence Reading, United Kingdom

Citizenship British

Post Office Address 5 Elm Court, Sonning Common
Reading RG4 9ND, UNITED KINGDOM

RECEIVED

JUL 23 2001

OFFICE OF PETITIONS

who refuses to sign.

Upon information and belief, I aver those fact that the inventors are required to state, 37 C.F.R. § 1.64 (b).

Ian Carmichael WISHART, Patents and Licensing Controller

signature



Date

10th July, 2001

Declaration and Power of Attorney For Patent Application

English Language Declaration

JUL 18 2001

As a below-named inventor, I hereby declare that:

My residence, ~~post office~~ address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CATALYTIC GENERATION OF HYDROGEN

the specification of which is attached hereto unless the following box is checked:

was filed on September 18, 2000 as

United States Application Number or PCT International Application Number 09/646,497

and was amended on September 18, 2000 (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Not Claimed

9806199.7

Great Britain

24 March 1998

— (Number)

— (Country)

— (Day/Month/Year Filed)

— (Number)

— (Country)

— (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

— (Application Number)

— (Filing Date)

— (Application Number)

— (Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
(Application Number)	(Filing Date)	(Status - patent d, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Paul F. Prestia	Reg. No. 23,031	Lawrence E. Ashery	Reg. No. 34,515	Jack J. Jankovitz	Reg. No. 42,690
Allan Ratner	Reg. No. 19,717	Christopher R. Lewis	Reg. No. 36,201	Jonathan H. Spadt	Reg. No. 45,122
Andrew L. Ney	Reg. No. 20,300	Robert L. Andersen	Reg. No. 25,771	Christopher I. Halliday	Reg. No. 42,621
Kenneth N. Nigon	Reg. No. 31,549	Joshua L. Cohen	Reg. No. 38,040	Scott A. McKeown	Reg. No. 42,866
Kevin R. Casey	Reg. No. 32,117	Daniel N. Calder	Reg. No. 27,424		
Benjamin E. Leace	Reg. No. 33,412	Louis W. Beardell, Jr.	Reg. No. 40,506		
James C. Simmons	Reg. No. 24,842	Jacques L. Etkowicz	Reg. No. 41,738		

Address all correspondence to: Paul F. Prestia

Ratner & Prestia, Suite 301, One Westlakes, Berwyn, P.O. Box 980, Valley Forge, PA 19482-0980

Address all telephone calls to: Paul Prestia at (610) 407-0700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name) Ian William CARPENTER

Inventor's signature

Residence 52 Park Road, Stapleton, Bristol BS16 1AU, United Kingdom

Date _____

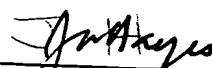
Citizenship Great Britain

Post Office Address 52 Park Road, Stapleton

Bristol BS16 1AU, UNITED KINGDOM

Full name of second joint inventor, if any (given name, family name) John William HAYES

Second Inventor's signature



Date 24/12/2001 ←

Residence 5 Elm Court, Sonning Common, Reading RG4 9ND, United Kingdom

Citizenship Great Britain

Post Office Address 5 Elm Court, Sonning Common

Reading RG4 9ND, UNITED KINGDOM

Additional inventors are being named on separately numbered sheets attached hereto.

ASSIGNMENT

WHEREAS, we, Ian William CARPENTER and John William HAYES, of Bristol, United Kingdom and Reading, United Kingdom, respectively, (hereinafter referred to as "ASSIGNOR") have made an invention entitled CATALYTIC GENERATION OF HYDROGEN, U.S. Application No. 09/646,497, filed September 18, 2000, for which the ASSIGNOR executed an application for United States Letters Patent;

WHEREAS, the ASSIGNEE, JOHNSON MATTHEY PUBLIC LIMITED COMPANY, 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ, United Kingdom, a corporation organized and existing under and by virtue of the laws of the United Kingdom, is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the ASSIGNEE the ASSIGNOR'S entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that ASSIGNOR shall be legally bound, upon request and at the expense of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments and do such other acts as may be necessary and proper to patent the invention in the United States of America and foreign countries in the name of the ASSIGNEE and to execute all instruments proper to carry out the intent of this instrument.

Because **ASSIGNOR** includes more than one person, these obligations shall apply to those persons both individually and collectively.

ASSIGNOR hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

ASSIGNOR #1:

Typed Name: Ian William CARPENTER

Signature

Date: _____

Witness as to **ASSIGNOR #1**: (Optional) _____

ASSIGNOR #2:

Typed Name: John William HAYES



Signature

Date: 24 February 2001 ←

Witness as to **ASSIGNOR #2**: (Optional) _____